In the Claims:

(Amended) A method of performing a cardiac procedure, comprising 1. 1 the steps of for: 2 (a) making a subxiphoid incision to provide an entry point for an endoscopic 3 cannula, wherein said endoscopic cannula has having at least one access port; 4 (b) inserting said a rigid endoscopic cannula into the incision having a 5 transparent tip at a distal end thereof; 6 (c) advancing the tip of said endoscopic cannula through tissue to the 7 pericardium under endoscopic visualization through the tip; and 8 (d) advancing a surgical instrument through said at least one access port of 9 10 said endoscopic cannula. (Amended) A method according to claim 1, further comprising the 2. 1 steps of for: 2 (e) after step (c) and before step (d), providing an opening in the pericardium 3 for the advancement of said endoscopic cannula into the pericardium; 4 (f) after step (e) and before step (d), advancing said endoscopic cannula into 5 the pericardium through said opening; and 6 (g) after step (d), performing the surgical procedure on the heart. 7

- The method of claim 1, wherein the subxiphoid incision has a length
- 2 no longer than required for insertion of the endoscopic cannula.
- 1 4. The method of claim 1, wherein only a single subxiphoid incision is
- 2 made.
- 5. The method of claim 1, wherein at least one additional subxiphoid
- 2 incision is made during step (a), and the method also includes the step of:
- 3 (e) inserting an additional surgical instrument through said at least one
- 4 additional incision.
- 1 6. (Amended) The method of claim 1, further comprising:
- 2 (e) before step (b), using a dilation tool laterally expanding a passage
- 3 through tissue from the subxiphoid incision to provide a dilated cavity to facilitate
- 4 insertion of the endoscopic cannula.
- 1 7. (Amended) The method of claim 2, wherein said opening in the
- 2 pericardium is provided by manipulating a pericardial an entry instrument through
- 3 the at least one access port of the rigid endoscopic cannula.
- 1 8. (Unexamined) The method of claim 7, wherein the endoscopic
- 2 cannula has a lumen and the pericardial entry instrument is advanced to the
- 3 pericardium through the lumen.

- 9. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a stapler for stapling off the atrial appendage.
- 1 10. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is an ablation device.
- 1 11. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a device for performing epicardial mapping.
- 1 12. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a device for performing intrapericardial drug
- 3 delivery.
- 1 13. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a device for performing a myocardial biopsy.
- 1 15. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a needle for injecting cardiac muscle cells or
- 3 undifferentiated satellite cells for cellular cardiomyoplasty.
- 1 16. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a cannula for injecting pharmacological agents
- 3 for angiogenesis.

- 1 17. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a robotic, cutting, stabilizing, or anastomotic
- 3 instrument for performing coronary artery bypass or coronary artery bypass
- 4 grafting.
- 1 18. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is an energy probe or mechanical piercing element
- 3 for piercing the heart muscle for transmyocardial revascularization.
- 1 19. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a device for creating a pericardial window.
- 1 20. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a stapler for stapling off the atrial appendage.
- 1 21. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a suture loop for cinching off the atrial
- 3 appendage.
- 1 22. (Unexamined) The method of claim 1, wherein said surgical
- 2 instrument advanced in step (d) is a clip for sealing off the atrial appendage.

- 1 23. (Amended) The method of claim 2, wherein said endoscopic cannula
- 2 is advanced during step (f) to opening is formed at a location near the apex of the
- 3 heart.
- 1 24. (Amended) The method of claim 2, wherein the <u>rigid</u> endoscopic
- 2 cannula is advanced during step (f) to a location at the anterior region of the heart
- and is then swept to throughout regions including the posterior region of the heart.
- 1 25. (Amended) The method of claim 2, wherein step (e) includes the
- 2 steps of for:
- gripping a flap of the pericardium under endoscopic visualization using a
- 4 pericardial an entry instrument introduced through the at least one access port of
- 5 the endoscopic cannula; and
- 6 cutting said flap of the pericardium while spaced away from the underlying
- 7 <u>heart</u> to create an opening in the pericardium under endoscopic visualization.
- 1 26. (Amended) The method of claim 25, wherein step (e) further
- 2 comprises the step of for:
- aligning the pericardial entry instrument substantially tangentially to the
- 4 pericardium under endoscopic visualization while gripping the flap of the
- 5 pericardium.

- 1 27. (Amended) The method of claim 25, wherein the cutting step further
- 2 comprises cutting the flap of the pericardium while spaced away from the
- 3 underlying heart.
- 1 28. (Unexamined) A method of performing a surgical procedure on a
- 2 mediastinal organ other than the heart, comprising the steps of:
- 3 (a) making a subxiphoid incision to provide an entry point for an endoscopic
- 4 cannula, wherein said endoscopic cannula has at least one access port;
- 5 (b) inserting said endoscopic cannula into the incision;
- 6 (c) advancing said endoscopic cannula to a surgical site within the
- 7 mediastinum under endoscopic visualization; and
- 8 (d) advancing a surgical instrument through said at least one access port of
- 9 said endoscopic cannula.
- 1 29. (Unexamined) The method of claim 28, further comprising the step
- 2 of:
- 3 (e) after step (d), performing the surgical procedure on said mediastinal
- 4 organ.
- 1 30. (Unexamined) The method of claim 28, wherein the subxiphoid
- 2 incision has a length no longer than required for insertion of the endoscopic
- 3 cannula.

- 1 31. (Unexamined) The method of claim 28, wherein only a single subxiphoid incision is made.
- 1 32. (Unexamined) The method of claim 28, wherein at least one
- 2 additional subxiphoid incision is made during step (a), and the method also
- 3 includes the step of:
- 4 (e) inserting an additional surgical instrument through said at least one
- 5 additional incision.
- 1 33. (Unexamined) The method of claim 28, further comprising:
- 2 (e) before step (b), using a dilation tool to provide a dilated cavity to
- 3 facilitate insertion of the endoscopic cannula.
- 1 34. (Amended) A method of performing a cardiac procedure with an <u>a</u>
- 2 <u>rigid</u> endoscopic cannula having an <u>a laterally</u> expandable sheath overlying the
- 3 endoscopic cannula, comprising: the steps for:
- 4 (a) incising skin overlying an entry point for the cardiac procedures;
- 5 (b) inserting an the rigid endoscopic cannula with an the expandable sheath
- 6 into the incision;
- 7 (c) advancing the endoscopic cannula to through tissue toward the
- 8 pericardium under endoscopic visualization; and

- 9 (d) dilating a working cavity laterally expanding the sheath responsive to
 10 passing the endoscopic cannula through the expandable sheath. to form a working
 11 cavity in dilated tissue.
- 1 35. (Amended) The method of claim 34 wherein dilating the working 2 cavity further comprises:
- dilating a working cavity laterally expanding the sheath responsive to
- 4 removing withdrawing the endoscopic cannula to a point-near from the sheath in a
- 5 <u>direction toward</u> the proximal end of the expandable sheath thereof.
- 1 36. (Amended) The method of claim 34 further comprising the step of 2 for:
- 3 (e) dilating the working cavity to larger <u>lateral</u> dimensions <u>than the</u>
- 4 <u>endoscopic cannula</u> responsive to insertion <u>into the expandable sheath</u> of surgical
- 5 tools having dimensions greater than the endoscopic cannula into the expandable
- 6 sheath.
- 1 37. (Amended) The method of claim 34 further comprising the steps of
- 2 <u>for</u>:
- 3 (e) inserting into a proximate end of the expandable sheath a surgical tool for
- 4 performing a cardiac procedure into a proximate end of the expandable sheath in

- 5 which the surgical tool has a maximal <u>lateral</u> dimension greater than a maximal
- 6 <u>lateral</u> dimension of the expandable sheath overlying the <u>endoscopic</u> cannula;
- 7 (f) advancing the surgical tool within the expandable sheath to toward a
- 8 distal end of thereof to laterally expand the expandable sheath; and
- 9 (g) performing a cardiac procedure using the surgical tool.
- 1 38. (Unexamined) An endoscopic cannula, comprising:
- a cannula, having an elongated body having arcuate shape and defining at
- 3 least one lumen;
- a tip positioned at a distal end of said elongated body, said tip having a
- 5 tapered distal end and being transparent for facilitating visualization through said
- 6 tip; and
- an endoscope, positioned at least partially in said at least one lumen for
- 8 providing visualization of a surgical procedure through said transparent tapered tip.
- 1 39. (Unexamined) The endoscopic cannula of claim 38, wherein said
- 2 cannula is composed of a flexible material.